Patent claims

1. An apparatus for the production of molded concrete pieces, in particular concrete building blocks (10), hollow concrete elements or the like, a mold frame (21) being provided which has at least one mold cavity (14) into which concrete can be poured and which is at least partially bounded by upright mold walls (15, 16) of the mold frame (21), and, furthermore, the mold cavity (14) being assigned at least one scraping member (22) with which concrete can be scraped off on at least one exterior side of the molded piece, in order to form a roughened surface (13), in particular during an upward movement of the mold frame (21) while the molded pieces are being removed from the mold, characterized in that the scraping member (22), on a side facing the molded piece, has an exterior surface (24) which is at least partially curved in cross section.

2. The apparatus as claimed in claim 1, characterized in that the scraping member (22) is assigned to a mold wall (15, 16) and at least partially protrudes in relation to this mold wall (15, 16) toward the interior of the mold cavity (14) and has a front, free scraping edge (25) which faces the molded piece.

3. The apparatus as claimed in claim 1 or 2, characterized in that the exterior surface (24) of the scraping member (22) has an at least partially curved profile in cross section in the region between the scraping edge (25) and the upright mold wall (15, 16).

4. The apparatus as claimed in one of claims 1 to 3, characterized in that the exterior surface (24) of the scraping member (22) is of at least partially concave design in cross section.

5. The apparatus as claimed in one of claims 1 to 4, characterized in that the exterior surface (24) of the scraping member (22) has a continuously curved profile in cross section in the region between the scraping edge (25) and the upright mold wall (15, 16).

6. The apparatus as claimed in one of claims 1 to 5, characterized in that the curvature of the exterior surface (24) has a constant radius.

7. The apparatus as claimed in one of the preceding claims, characterized in that the scraping member (22) is arranged in the region of a lower free edge of the mold wall (15, 16) and extends in particular continuously along the mold wall (15, 16).

8. The apparatus as claimed in one of the preceding claims, characterized in that scraping members (22) are arranged on at least two opposite mold walls (15, 16) of a mold cavity (14), for the simultaneous formation of a roughened surface on corresponding opposite side surfaces (13) of the molded piece.

9. The apparatus as claimed in one of the preceding claims, characterized in that the scraping member (22) is part of the mold wall (15, 16).

10. The apparatus as claimed in one of the preceding claims, characterized in that a ram (19) entering a mold cavity (14) on a top side of the mold frame (21) has a ram plate (20) which, in the region of the scraping member (22), has such a lateral distance from the adjacent mold walls (15, 16) that the scraping member (22) can be moved past the ram plate (20) during the removal of the molded pieces from the mold.

11. The apparatus as claimed in one of the preceding claims, characterized in that the concrete carried along by the scraping member or the scraping members

(22) during removal of the molded pieces from the mold can be removed upward out of the mold cavities (14).

12. The apparatus as claimed in one of the preceding claims, characterized in that the mold walls (15, 16) are of closed design, in particular in such a manner that the mold walls (15, 16) do not have any recesses, apertures or the like.

13. The apparatus as claimed in one of the preceding claims, characterized in that elements, in particular knobs (28), which protrude towards the interior of the mold cavity (14) are arranged in the region of the upright mold walls (15, 16).

14. The apparatus as claimed in one of the preceding claims, characterized in that the elements, in particular knobs (28), are arranged in a number of preferably parallel rows one above another, the members of one row being arranged at a distance from one another, in particular with uniform or regular distances between one another.

15. The apparatus as claimed in one of the preceding claims, characterized in that the elements, in particular knobs (28), of adjacent rows are arranged offset with respect to one another, in particular are offset in a staggered manner to one another.

16. The apparatus as claimed in one of the preceding claims, characterized in that the elements have a cuboidal design.